GOOD HEALTH AND WELLNESS



June 5, 2009



Director for the Sun Health Research Institute's Center for Healthy Aging and

Program Director for the Sun Health/St. Joseph's Geriatric Fellowship Program

BRAIN FITNESS TEST

LOOK → **SNAP** → **IMAGRY**

Beach Professor Horse Teddy Bear Cigar Nun Palm Tree Pasta

HEALTHY AGING DEFINITIONS*

Successful Aging

Absence of disease and disability; high cognitive and physical functioning; and active engagement with life. (Rowe and Kahn)

Optimal Aging

The capacity to function across many domains – physical, functional, cognitive, emotional, social, and spiritual – to one's satisfaction and in spite of one's medical conditions.

How can we do to stay healthy and maintain a good quality of life?

by Mark Parisi



HIS ANNUAL PAYOLA INSTALLMENT

Attitude

Diet

Exercise

FACTORS CONTRIBUTING TO GOOD HEALTH

- Genetics
- Environment
 - Air, water
- Psychosocial Factors
 - Resiliency vs. Depression
- Lifestyle
 - Diet, weight, smoking, exercise
- Aging

Genetics

Very little control (at this time) over, but a lot can be done to to maintain the best quality of life

Not so much how long we live but how we live!!

"The Bucket List"

FACTORS CONTRIBUTING TO GOOD HEALTH

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Environmental Factors CHINA

Ambient air pollution has made cancer China's leading cause of death!

Only 1% of the country's 560 million city dwellers breathe safe air.

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Societal Challenges

RUSSIA LIFE EXPECTANCY - MALE

• 1990 - 64 years

• 1995 - 57 years

Resilience: Dealing with Adversity

Resilience is the ability:

- to bounce back swiftly and fully from distressing events
- To sustain positive affective engagements even in the face of chronic difficulties

Resilience cuts across levels of adaptation: From restoration of homeostasis in the body to preservation of quality in community life.

Psychological Immunity

- A built-in response to troubling times that transforms our representations of negative events giving rise to resilient solutions (some good/some bad)
- People are frequently unaware of these capacities within themselves and in their social networks.
- There is likely a Social Immunity as well



FACTORS CONTRIBUTING TO GOOD HEALTH

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CENTER FOR HEALTHY AGING

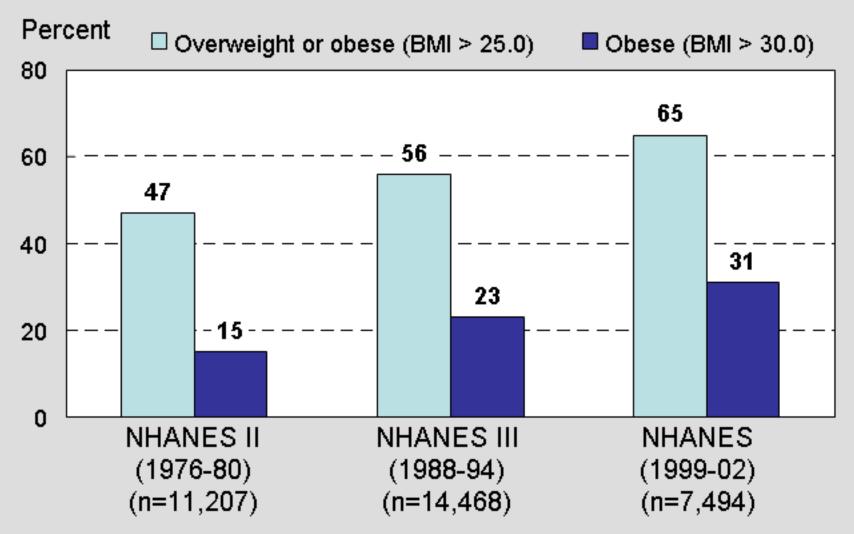


Diet/weight and its effect on healthy aging (and longevity)!
How important is diet?
What's in and what's out regarding dietary intake!

Obesity and Longevity

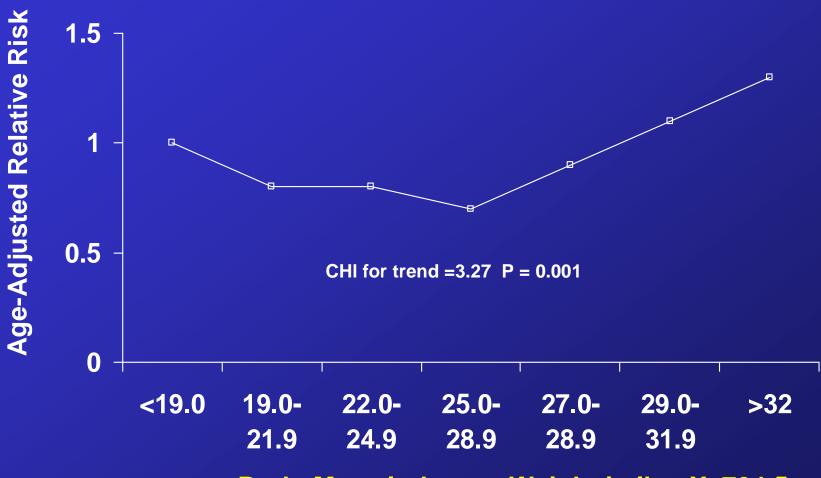
Non-obese persons live longer then obese persons

Figure 2. Age-adjusted* prevalence of overweight and obesity among U.S. adults, age 20-74 years



^{*}Age-adjusted by the direct method to the year 2000 U.S. Bureau of the Census estimates using the age groups 20-39, 40-59, and 60-74 years.

BMI and Mortality All Women, 1976-92 (4726 Deaths)



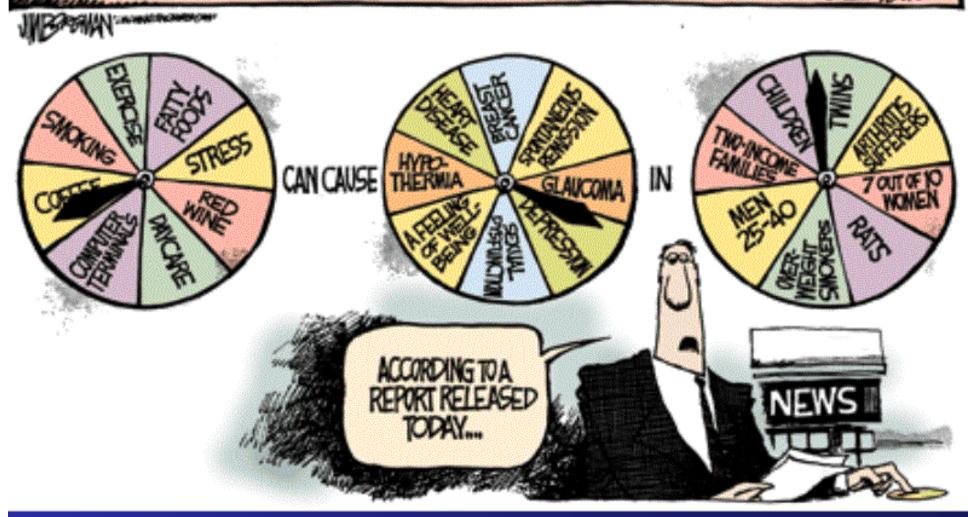
Body-Mass Index = Weight in lbs X 704.5 (Height in inches)²

Manson et al, 1995

DIET WHAT SHOULD I BELIEVE AND WHAT SHOULD I NOT BELIEVE??

Today's Random Medical News

from the New England Journal of Panic-Inducing Gatalectystock



Healthy Eating Pyramid

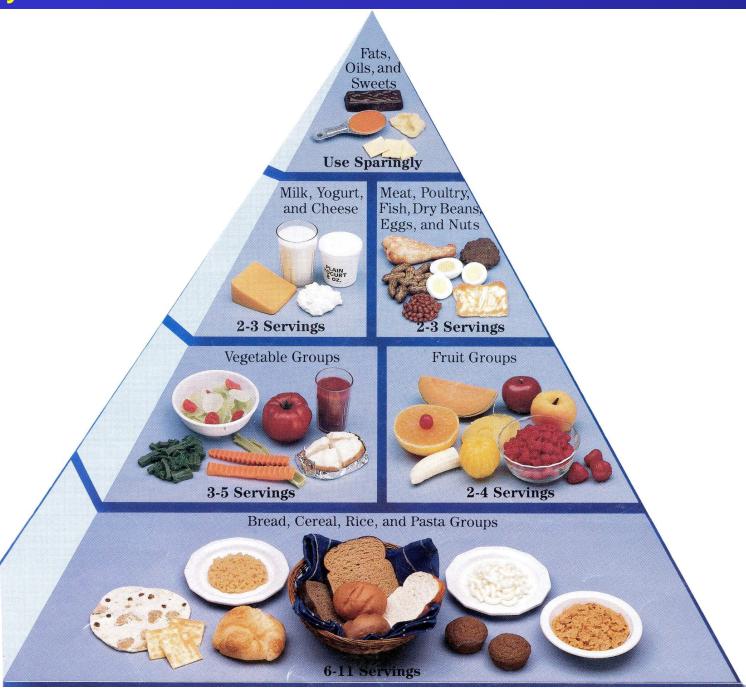
1992-2005 Concerns

Fats & Oils

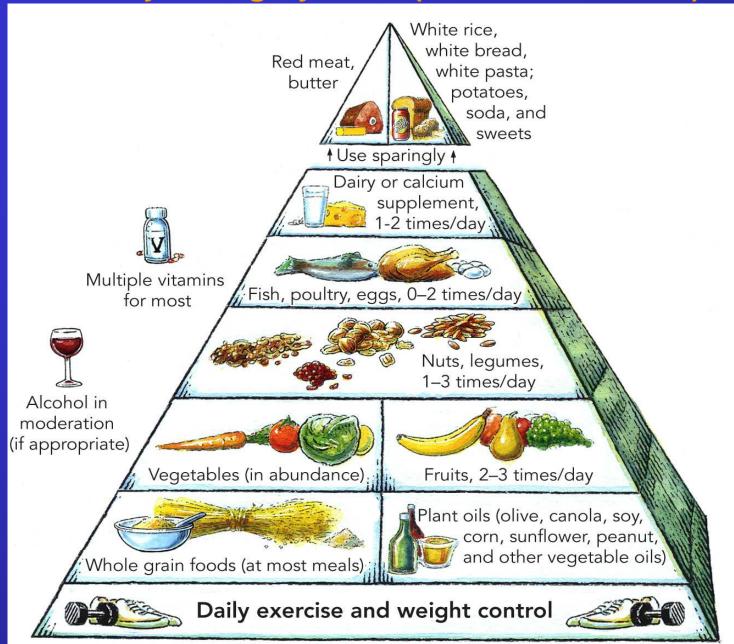
Red Meat

Potatoes

White Bread Rice



Healthy Eating Pyramid (Walter Willett, MD)



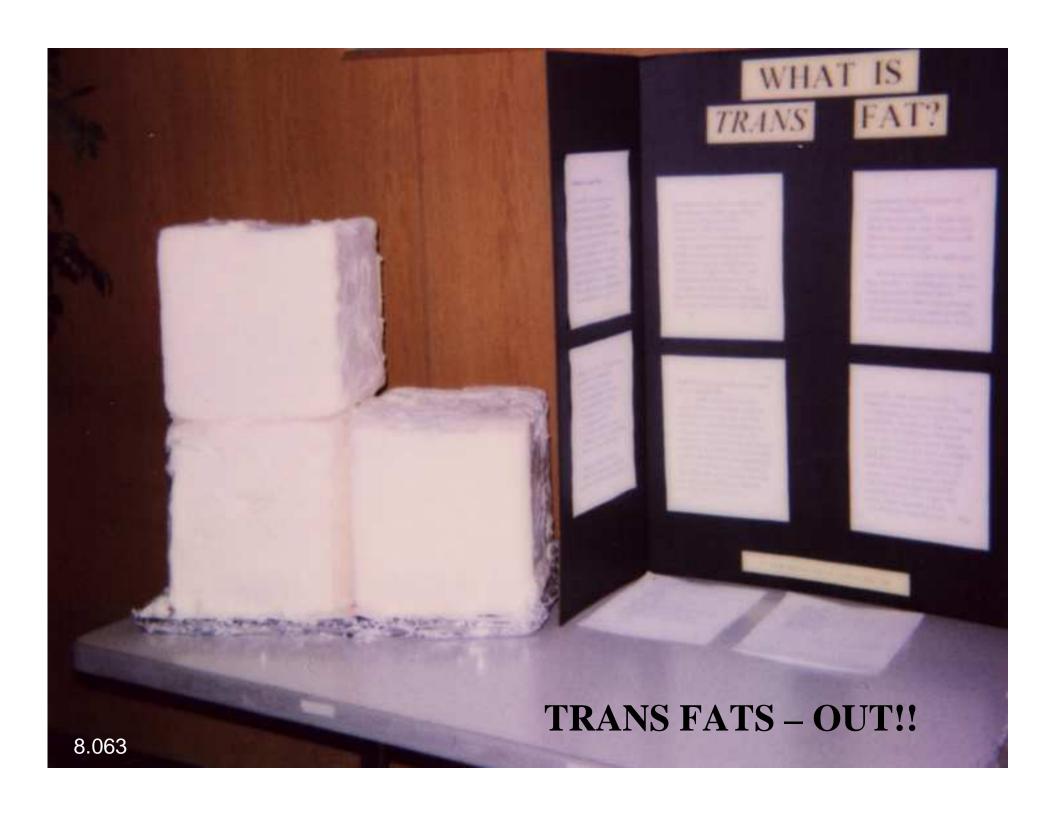
"Eat, Drink,
And be
Healthy"
Walter C.
Willett, MD



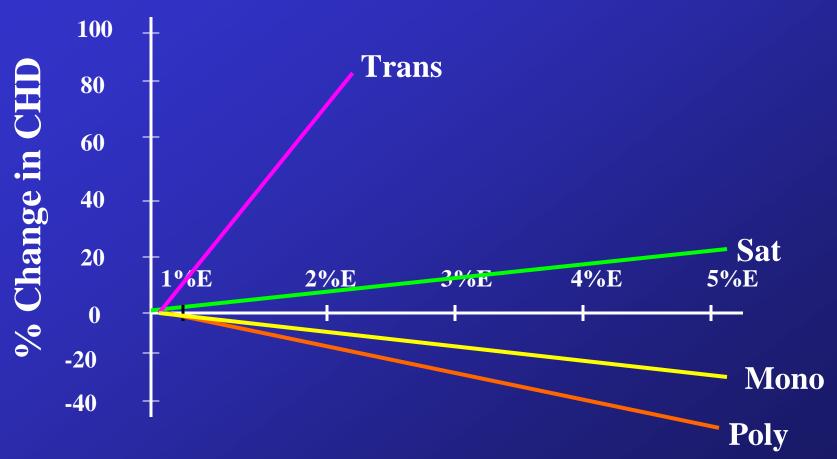
New results from Woman's Health Initiative
Dietary Modification Trial showed that eating a
low-fat diet for 8 years did not prevent heart
disease, breast cancer, or colon cancer, and
didn't do much for weight loss, either.

Intake of total fat intake is not as important as the type of fats ingested in preventing adverse medical problems

SO WHICH FATS ARE IN AND WHICH FATS ARE OUT?



Dietary Fat Intake and the Risk for Coronary Artery Disease.*



**With a 2% increase in caloric intake from trans fatty acids there is an 23% increase in the incidence of coronary artery disease.

*Hu et al. NEJM, 1997 ** Mozaffarian et al, NEJM, 2006

Effect of Trans and Saturated Fat (10% E) on Blood Lipids (vs Monounsaturated Fat) (Mensink & Katan, 1990)

	Trans fat	Saturated fat
Total cholesterol	+6%	+12%
LDL cholesterol	+14%	+18%
HDL - good cholesterol	-12%	0%
LDL/HDL ratio	+29%	+18%

DIETARY FATS

Type of Fat	Main Source	State at Room Temperature	Effect on Cholesterol Levels
Monounsaturated	*Olives, olive oil, canola oil, peanut oil; cashews, almonds, peanuts, and most other nuts; avocados	Liquid	Lowers LDL; raises HDL
Polyunsaturated	Corn, soybean, safflower, and cottonseed oils; fish	Liquid	Lowers LDL; raises HDL
Saturated	Whole milk, butter, cheese, and ice cream; red meat; chocolate; coconuts, coconut milk, and coconut oil	Solid	Raises both LDL and HDL
Trans	Most margarines; vegetable shortening; partially hydrogenated vegetable oil; deep-fried chips; many fast foods; most commercial baked goods	Solid or semi-solid	Raises LDL; lowers HDL

^{*}Virgin olive oil better than refined (richer in phenolic content)

CARBOHYDRATES

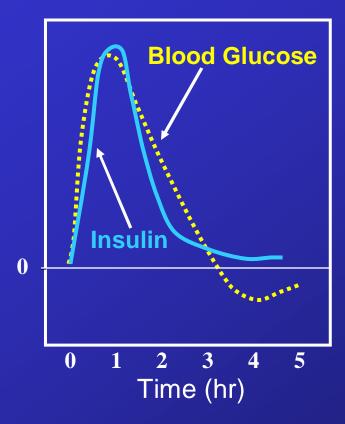
GOOD or BAD?





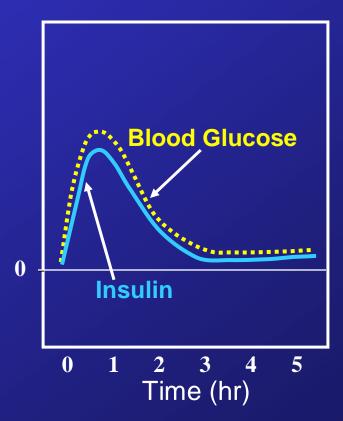
DEPENDS ON WHAT KIND OF CARBS

Easily Digested Carbohydrate



High Glycemic

Slowly Digested Carbohydrate



Low Glycemic

Low Glycemic Load

High-fiber fruits and vegetables (not including potatoes); Bran cereals; Many legumes, including chick peas, kidney beans, black beans, lentils, pinto beans.

Medium Glycemic Load

Pearled barley; Brown rice; Oatmeal; Rice cakes; Whole grain breads; Whole-grain pasta; No-sugar added fruit juices.

High Glycemic Load

Baked potato; French fries; Refined cereal products; Sugar-sweetened beverages; 12 oz Jelly beans; refined sugar products e.g. candy bars; Couscous; White basmati rice; White-flour pasta.

Six Ideas for Low-Sugar Drinks

- Infused water (spa water)
 - flavored water free of sugar and artificial sweeteners
- Tea Black or green, caffeinated or decaf, leaf or herbal, hot or cold, tea is an excellent choice for a calorie free beverage.
 - Adding a teaspoon of sugar or honey only adds about 15 calories to the cup.
- Coffee Watch what you add.

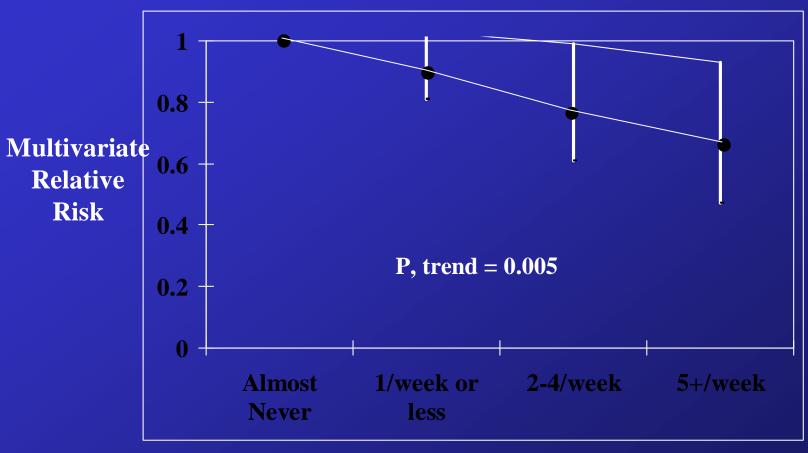
Six Ideas for Low-Sugar Drinks

- Sparkling water with a splash of juice
 - Home made sparkling juice 12 ounces of sparkling water and add an ounce or two of juice. For a flavor twist, add sliced citrus or fresh herbs.
- Fresh fruit coolers Store-bought or cafe smoothies are marketed as "health" foods, but they are often loaded with sugar and high in calories *Ingredients:* 1/2 cup of ice, 3/4 cup of sugar-free sparkling water, 1/3 cup of melon or berries, Chopped mint leaves or citrus slices (optional)
 - 18 calories
- Low sodium broth or miso Low-sodium broth can give your body the fluid it needs, and can be a satisfying alternative to a sweet drink.

NUTS AND FISH IN!



Nut Consumption and Risk of Coronary Heart Disease—NHS, 1980-1994



Frequency of Nut Consumption

(Hu et al, 1997)

FISH OILS

Omega-3 essential fatty acids (eicosapentaenoic acid(EPA)/docosahexaenoic acid (DHA)

Associated with a decrease mortality in patients with CHD and a delay in the progression of Alzheimer's Dementia

Fish – salmon

Omega-3 fatty acids tablets

(300/440 mg. tablets)

Flaxseed Oil

FIBER IN!

Decrease cardiovascular disease ? Decrease colon cancer



Sources of Fiber ▼ 20 -35 grams/day

Soluble Fiber

oatmeal
oatbran
nuts and seeds
Legumes
dried peas
beans
lentils
Apples (pulp)
Pears (pulp)
strawberries

blueberries

Insoluble Fiber

Whole grains, whole wheat breads barley couscous brown rice bulgur (dry cracked wheat) whole-grain breakfast cereals wheat bran seeds carrots cucumbers zucchini, celery, tomatoes



CALCIUM MILK IN OR OUT?



NOT ONLY TO PREVENT OSTEOPOROSIS

Cancers

Calcium Intake associated with a lower risk of total cancers, and cancers of the gastrointestinal tract, especially colorectal cancers

Possible downside in men: Increase prostate cancer in men drinking 3 glasses of milk/day

VITAMINS

WHAT'S IN AND WHAT'S OUT??

VITAMINS

WHAT'S IN Vitamin D and the B Vitamins, Especially FOLIC ACID

WHAT'S OUT – VITAMIN A, E AND ? VITAMIN C

Vitamin D

Take along with calcium for osteoporosis

- Improves muscle strength and balance
- Decreases incidence of colon cancer
- May help to maintain memory

Daily requirements 1000IU/day or 50,000/week

FOLIC ACID

- Observational studies show a decrease in cardiovascular disease
- Decrease incidence of colon cancer
- Delays the onset or slows the progression of Alzheimer's Dementia

Daily requirements are NOT being met in older adults. We all should probably be taking a supplement!!

<u>ANTIOXIDANTS</u>

- 1. Berries blackberries, strawberries, and raspberries
- 2. Nuts walnuts
- 3. Vegetables leafy green vegetables
 - Broccoli 2 cups/day helps allergies

GREEN TEA(Polyphenols)

Green tea consumption associated with:

Reduced all cause mortality and cardiovascular disease but not cancer.

(Study out of Japan)

Probiotics (yogurt)

Beneficial in:

- Nutrition Calories/Calcium
- Antibiotic induced diarrhea
- Constipation
- Irritable Bowel Syndrome
- Cancer (colon) prevention and treatment
- Immune enhancement
- Treat lactose intolerance
- Allergies



ALCOHOL





ALCOHOL



RESVERATOAL!?!

ALCOHOL

In the U.S., one drink is usually considered to be:
12 ounces of beer, 5 ounces of wine, or 1½ ounces of spirits (hard liquor such as gin or whiskey).

Each delivers about 12 to 14 grams of alcohol

17% lower risk of all-cause mortality;
40% reduction in risk of CHD
Risk ratio for MI with intake of 15 – 29 grams
of alcohol/day is 0.38 compared to no ETOH*
70% reduction in risk of ischemic stroke
BUT

20% - 25% increase in breast cancer in woman

EXERCISE!

I decided to take an aerobics class.

I bent, twisted, gyrated

and jumped up and down for an hour.

But, by the time
I got my leotard on,
the class was over.



Jenny Wood-Allen from Scotland, was 87 years old when she completed the 1999 London Marathon.

EXERCISE

Some things you really can do forever!





EXERCISE



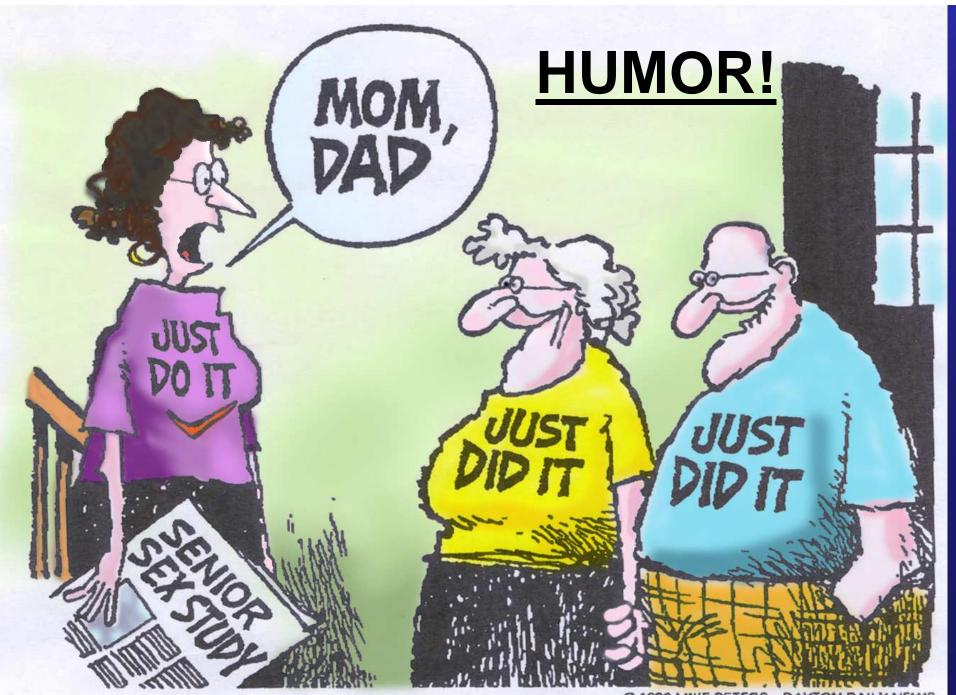
The benefits of mild to moderate exercise are just as good as strenuous exercise!!

- Exercise 3-5 times/weekly
- Accumulative need not be all at once
- Endurance, strength (passive resistance), flexibility, and balance
- Important to maintain or improve lean body muscle mass

ASO – Az. Senior Olympics (30 – 40 events)

HEALTHY LIFE STYLE

- 1. Non smoker
- 2. BMI < 25 kg/m2
- 3. Exercise $\geq \frac{1}{2}$ hr of brisk walking/day
- 4. Good diet (upper 2 quartiles of score based on low trans fat, high p/s ratio, low glycemic load (high – potatoes, white bread, & candies; low – vegetables, nuts, & grains), high cereal fiber, high fish, high total folate)
- 5. Alcohol 5+g/day (1 drink every other day) (largest study showing greatest association with increased longevity is with one alcoholic drink/day.)*



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LIFE IS NOT A JOURNEY TO THE GRAVE WITH THE INTENTION OF ARRIVING SAFELY IN A PRETTY AND WELL PRESERVED BODY, BUT RATHER TO SKID IN BROADSIDE, THOROUGHLY USED UP, TOTALLY WORN OUT, AND LOUDLY PROCLAIMING WOW.....WHAT A RIDE!











